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09/708,494	11/09/2000	Pascal A. Nsame	BUR9-2000-0071-US1 2612	
29154	7590 10/21/2003		EXAMINER	
FREDERIC MCGINN &	K W. GIBB, III		ниуин	, KIM T
2568-A RIVA ROAD		ART UNIT	PAPER NUMBER	
SUITE 304 ANNAPOLIS, MD 21401			2189	· · ·
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Please find below and/or attached an Office communication concerning this application or proceeding.

Application No.   Application No.   Applicant(s)   Office Action Summary   Office Action Summary   Office Action Summary   Examiner   Examiner	,		<b>A</b>				
## Defice Action Summary  ## Examiner   Kim T. Huynh		Application No.	Applicant(s)				
Rim T. Huynh   2189	Office Author Comment	09/708,494	NSAME, PASCAL A.				
The MALING DATE of this communication appears on the cover sheet with th correspondence address - Period for Repty  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ② MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Edecations of time may be available under the provisions of 3 CPR 1.13(i). In no event, however, may a raphy be timely filled and the provisions of 3 CPR 1.13(ii). In no event, however, may a raphy be timely filled and the 50 Ki) MCNTHS from the mailing date of the communication of 3 CPR 1.13(ii). In no event, however, may a raphy be timely filled and the 50 Ki) MCNTHS from the mailing date of the communication of this COMMUNICATION.  I NO begrade for early is specified store, the mailing date of the communication of this COMMUNICATION.  I NO begrade for early is application to the mailing date of the communication of the communication of the communication to the communication of the communication of the communication.  Provided Provid	Office Action Summary	Examiner	Art Unit				
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THE MAILING DATE OF THIS COMMUNICATION.  Estencions of time may be valided under the provision of 3 CPR 1.15(d). In no event, however, may a reply be timely filed effect SX (6) MONTHS from the mailing date of this communication.  If the period for reply institute from the mailing date of this communication.  If the period of reply institute to reply within the state of the communication.  Failure to reply within the set or extended period for reply will, by statello, cause the application to become ARANDONED (38 U.S. C. § 133). Any reply received by the Office that the three membras destree that one was marked period will reply the set of the communication.  Failure to reply within the set or extended period for reply will, by statele, cause the application to become ARANDONED (38 U.S. C. § 133). Any reply received by the Office that the three membras destree the mailing date of this communication, even if timely filed, may reduce any secured plants term origination in the production of Claims.  1) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) 1-29 is/are pending in the application.  4) Claim(s) 1-29 is/are allowed.  6) Claim(s) 1-29 is/are allowed.  6) Claim(s) 1-29 is/are allowed.  6) Claim(s) 1-29 is/are allowed.  7) Claim(s) 1-29 is/are allowed.  8) Claim(s) 1-29 is/are allowed.  8) Claim(s) 1-29 is/are rejected.  9) The drawing(s) filed on 1 is/are: and accepted or bid objected to by the Examiner.  Application Papers  9) The proposed drawing subject to restriction and/or election requirement.  Application Papers  10) The drawing(s) filed on 1 is/are: and accepted or bid objected to by the Examiner.  If approved, corrected drawings are required in reply to this Office action.  12) The proposed drawings correction filed on 1 is/are: and approved by the Examiner.  13) Acknowledgment is made of a claim for foreign priority							
2a)  This action is FINAL. 2b)  This action is non-final.  3)  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s)  1-29 is/are pending in the application.  4a) Of the above claim(s)  is/are withdrawn from consideration.  5)  Claim(s)  is/are allowed.  6)  Claim(s)  is/are allowed.  7)  Claim(s)  is/are objected to.  8)  Claim(s)  is/are objected to.  8)  Claim(s)  is/are objected to.  9)  The specification is objected to by the Examiner.  10)  The drawing(s) filed on  is/are: a) accepted or b) objected to by the Examiner.  Application Papers  9)  The proposed drawing correction filed on  is: a) approved by disapproved by the Examiner.  If approved, corrected drawings are required in reply to this Office action.  12)  The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. §§ 119 and 120  13)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1  Certified copies of the priority documents have been received in Application No.  application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a)  The translation of the foreign language provisional application has been received.  15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 120 and/or 121.  Attechment(s)	A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
3  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4  Claim(s) 1-29 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5)  Claim(s) is/are allowed.  6)  Claim(s) is/are allowed.  6)  Claim(s) is/are objected to.  8)  Claim(s) is/are objected to.  8)  Claim(s) is/are objected to.  8)  Claim(s) is/are objected to by the Examiner.  4pplication Papers  9)  The specification is objected to by the Examiner.  10)  The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11)  The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.  If approved, corrected drawings are required in reply to this Office action.  12)  The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. §§ 119 and 120  13)	1) Responsive to communication(s) filed on 30 J	<u>uly 2003</u> .					
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Application/Control Number: 09/708,494 Page 2

Art Unit: 2189

#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1, 4-6, 8-11, 14-16, 18-21, 24-26, 28-29 are rejected under 35 U.S.C. 102(e) as being anticipated by Dutton et al. (US Patent 6,047,350)
  - a. As per claims 1, 10, 11, 20, 21, Dutton discloses a system-on-a-chip integrated circuit structure comprising:
    - a bridge (fig.1, 106) having a plurality of channels; (col.4, lines 15-67)
    - a processor (fig.1, 102) local bus connected to said bridge, wherein said bridge includes a first channel (fig.1, 104) dedicated to said processor local bus (fig.1, 104); (col.4, lines 15-67)
    - at least one logic device (fig.1, 107) connected to said processor local bus; (col.4, lines 15-67)
    - a peripheral device bus (fig.1, 120, 130) connected to said peripheral device bus; (col.4, lines 15-67) at least one peripheral device (fig.1, 142) connected to said peripheral device bus;

Application/Control Number: 09/708,494

Art Unit: 2189

 at least one memory (fig.1, 110) unit connected to said bridge, wherein said bridge includes a third channel (fig.1, 108) dedicated to said memory unit; (col.4, lines 15-67)

Page 3

- at least one input/output unit connected to said bridge, wherein said bridge includes a fourth channel (fig.1, 120) dedicated to said input/output unit. (col.4, lines 66-77)
- b. As per claims 4, 14, 24, Dutton discloses a multi-port static random access memory (SRAM) adapted to stored data when a previous data transfer is being performed. (col.4, lines 28-30)
- c. As per claims 5,15, 25, Dutton discloses a multiplexor adapted to selectively connect to other channels. (col.7, lines 3-9)
- d. As per claims 6,16, 26, Dutton discloses at least one memory unit comprises a first-type memory unit and a second-type memory unit different than said first-type memory unit, wherein said third channel is dedicated to said first-type memory unit and said bridge includes a fifth channel dedicated to said second-type memory unit. (col.7, lines 34-39), wherein, fig.2, 220a/220b for two types of memory)
- e. As per claims 8,18, 28, Dutton discloses at least one input/output unit comprises one or more of a peripheral interface, graphics interface, and serial bus interface, and wherein said bridge includes dedicated channels for each of said peripheral interface, graphics interface, and serial bus interface. (col.8, lines 1-34)

Application/Control Number: 09/708,494 Page 4

Art Unit: 2189

f. As per claims 9,19, 29, Dutton discloses at least one peripheral device includes one or more of a serial connection, network interface connection, and programmable input/output connection each connected to said peripheral device bus. (col.8, lines 1-34)

## Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 2-3, 7, 12-13, 17, 22-23, 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dutton et al. (US Patent 6,047,350)
  - a. As per claims 2, 12, 22, although Dutton not expressly disclose buffer memories adapted to store data. However, Dutton discloses memory 220 for storing data bandwidth, data source and data destination information. (col.6, lines 66-67), (col.7, lines 1-3)

Examiner takes Official Notice that buffer is well known in the art. It would have been obvious to one having ordinary skills in the art at the time the invention was made to include buffer with the same purpose of storing data.

b. As per claims 3, 13, 23, although Dutton not expressly disclose first-in-first-out buffer memories adapted to store data. However, Dutton discloses memory 220 for storing data bandwidth, data source and data destination information. (col.6, lines 66-67), (col.7, lines 1-3)

Application/Control Number: 09/708,494 Page 5

Art Unit: 2189

Examiner takes Official Notice that first-in-first-out buffer is well known in the art. It would have been obvious to one having ordinary skills in the art at the time the invention was made to include buffer with the same purpose of storing data.

c. As per claims 7,17, 27, Dutton discloses the claimed invention except for first-type memory unit comprises static random access memory (SRAM) and said second-type memory unit comprises synchronous dynamic random access memory (SDRAM), It would have been an obvious matter of design choice to have different type of memories, since such a modification would have involved a mere changing type of memories with only the same purpose of storing data.

### Response to Arguments

5. Applicant's arguments filed on 7/30/03 have been fully considered but are not persuasive

a. In response to applicant's argument that Dutton does not teach or suggest the bridge has multiple channels and each channels are uniquely dedicated to different devices. As Dutton notes on fig.1, see col.4 includes the description of how each of the devices connected onto bridge. Dutton does disclose bridge 106, has multiple busses (channels) such as bus 104 dedicated cpu, 106 for memory, 130 for i/o unit for and 120 for peripheral devices; and these busses (channels) are individual bussed not shared busses for cpu, memory, i/o unit and for peripheral devices. Therefore it is clearly that Dutton's reference read on the breadth of the claims language as recited in the independent claims.

#### Conclusion

6. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kim Huynh whose telephone number is (703)305-5384 or via e-mail addressed to [kim.huynh3@uspto.gov]. The examiner can normally be reached on M-F 8:30AM- 6:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Rinehart can be reached on (703) 305-4815 or via e-mail addressed to [mark.rinehart@uspto.gov]. The fax phone numbers for the organization where this application or proceeding is assigned are (703)872-9306 for regular communications and After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)306-5631.

Kim Huynh

Oct. 16, 2003

SUMATI LEFKOWITZ

TRIMARY EXAMINER